

MATERIAL SAFETY DATA SHEET

Section I:

Manufactures Name: Walling Chemical Company

Address: 2008 Westport Ave., Box 408, Sioux Falls, SD 57117-0408

Phone #: 605-336-6710

Date Prepared: January 2, 1986

Product Identity: Code #592

Synonyms: Ceric Sulfate

Section II: Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH-TLV	Flammability	LEL	UEL
Ceric Acid	Not Listed	Not Listed	NA (o)	NA	NA
Sulfuric Acid	1mg/m ³	1mg/m ³	NA (o)	NA	NA

Other Cited Data: Ceric salts have a low toxicity (Merck Index).

Comments Treat as a dilute sulfuric acid solution, Corrosive,

Section III: Physical/Chemical Characteristics

Boiling Point Approx. 100°C Specific Gravity (H₂O=1) 1.0
 Vapor Pressure (water) Melting Point Approx 32°F
 pH 1 - 2 Evaporation Rate (Butyl acetate=1) <1
 Appearance and odor Yellow-Orange Odorless Liquid

Section IV: Fire and Explosion Data

Flash Point NA

Extinguishing Media NA

Special Fire Fighting Procedures NA

Unusual Fire and Explosion Hazards NA

Section V: Reactivity Data

Stability: Stable Yes Unstable No

Conditions to avoid Reducing Agents, Metal Containers

Incombatability Reducing agents, Sulfides, Oxalates, Metals Containers

Hazardous Decomposition or By Products SO₂ by thermal decomposition.

Hazardous Polymerization: Will Occur - , Will Not Occur +

Section VI: Health Hazard Data

Routes of Entry: Inhalation - Skin Yes Ingestion Yes

Health Hazards (Acute and Chronic) Eyes: Irritation, burns
Ingestion: Give sodium bicarbonate in water or an antacid and water,
Skin: corrosive,

Carcinogenicity: NTP No IARC No

OSHA Regulated No Other No

Signs and Symptoms of Exposure: Eyes: Irritation, burns, Ingestion: Give
sodium bicarbonate in water or an antacid and water, Call a
physician. Skin: May cause irritation.

Medical Conditions Aggravated by Exposure: None Known

Emergency and First Aid Procedures: Eyes: Flush with plenty of water.
Skin: Wash off well with soap and water.

Section VII: Precautions for Safe Handling and Use.

Steps to be taken in case material is released or spilled: Absorb on inert material
and transfer to a waste bin for incineration or burial,

Waste Disposal Method Follow federal, state and local regulations,

Precautions to be taken in handling and storing: Aboid contact,

Other precautions: Follow safe practices and personal hygiene. Remove
contaminated clothing and launder before reuse.

Section VIII: Control Measures

Respiratory Protection: NA

Ventilation: Local Exhaust NA Special NA
Mechanical (Type) NA Other NA

Protective Gloves Latex Eye Protection Goggles
Other Eye Wash

Comments: Use only as an analytical reagent

References Used:

Third Annual Report on Carcinogens
NTIS
Research Triangle Park, NC

Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids (1984)
NFPA
Batterymarch Park, Quincy, MA 02269

OSHA Safety and Health Standards
(29 CFR 1910) OSHA 2206
U.S. Dept. of Labor
Washington, D.C. 20402

Threshold Limit Values and Biological Exposure Indices For 1985-86
ACGIH, Cincinnati, OH 45211